

Nucleus Start-Up Error Messages

This section describes error messages and response codes issued by the Adabas nucleus. These errors may occur during nucleus startup, usually as the result of an ADARUN parameter error. The nucleus prints an error message and then terminates with an abnormal end (ABEND) code of 20 (see the ABEND code descriptions).

Refer to the Adabas Operations documentation for a description of the ADARUN parameters.

These error messages have the following format:

PARM-ERROR nnn [DETECTED DURING SYSTEM OPEN]

-where "nnn" is one of the start-up errors and has the corresponding meaning described here. The error message may be followed by a brief error description.

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PARM ERROR 1

Explanation: The Associator dataset(s) could not be opened, or an error occurred during GCB processing:

- invalid or incorrect DEVICE parameter;
- missing or invalid DD/ASSOR1-5 JCL or datasets;
- mismatching database ID; or
- missing checkpoint file.

This error may result from a dataset not located on a cylinder boundary.

Action: For single-user mode, the appropriate Adabas job control statements must be specified.

PARM ERROR 2

Explanation: Data Storage dataset(s) could not be opened. This probably indicates invalid DD/DATAR1-5 JCL or datasets, or a dataset not located on a cylinder boundary.

Action: For single-user mode, the appropriate Adabas job control statements must be specified.

PARM ERROR 3

Explanation: The Work dataset could not be opened, or the last Work block was not readable. This probably indicates invalid DD/WORKR1 JCL or dataset, or a dataset not located on a cylinder boundary.

Action: For single-user mode, the appropriate Adabas job control statements must be specified.

PARM ERROR 4

Explanation: The value of the ADARUN statement's number of threads (NT) parameter is invalid. The allowed range is from 3 to 250.

PARM ERROR 5

Explanation: The value of the ADARUN statement's number of hold queue elements (NH) parameter is invalid. The allowed range is from 20 to 16,777,215.

PARM ERROR 6

Explanation: The value of the ADARUN statement's user queue element count (NU) parameter is invalid. The allowed range is from 20 to 16,777,215.

PARM ERROR 7

Explanation: The value of the ADARUN statement's user ISN hold queue count (NISNHQ) is invalid. The allowed maximum is the smaller of 1/4 the NH parameter value and 65,535.

PARM ERROR 8

Explanation: The value of the ADARUN statement's command queue element count (NC) parameter is invalid. The allowed range is from 20 to 32,767.

PARM ERROR 9

Explanation: The value of the ADARUN statement's Adabas cluster nucleus ID (NUCID) is invalid. The maximum value is 65000.

PARM ERROR 10

Explanation: The value of the ADARUN statement's ISN list table length (LI) parameter is invalid. The minimum value is 2000.

PARM ERROR 11

Explanation: The value of the ADARUN statement's sequential command table (LQ) parameter is invalid. The minimum value is 2000.

PARM ERROR 12

Explanation: The value of the ADARUN statement's buffer pool length (LBP) parameter is invalid. The minimum value is 80,000.

PARM ERROR 13

Explanation: The value of the ADARUN statement's internal format pool (LFP) parameter is invalid. the minimum value is 6000.

PARM ERROR 14

Explanation: The value of the ADARUN statement's work pool length (LWP) parameter is invalid. The minimum value is 80,000.

PARM ERROR 15

Explanation: The value of the ADARUN statement's sort area length size (LS) parameter is invalid. The allowed range is from 19,968 to (LWP/2) - 19,968.

PARM ERROR 16

Explanation: The value of the ADARUN statement's security pool length (LCP) parameter is invalid. The allowed range is from 2000 to 16,777,215.

PARM ERROR 17

Explanation: The size of Work part 1 (the value of the ADARUN statement's LP parameter) is less than 200 blocks or greater than the Work dataset size minus the space required for Work part 2 (the LWKP2 parameter), Work part 3 (minimum of 50 blocks), and, if used, Work part 4 (the LDTP parameter).

PARM ERROR 18

Explanation: Fewer than 50 blocks are available for Work part 3. Autorestart has been executed.

PARM ERROR 19

Explanation: The DBID of the general control block (GCB) and DBID stored on the Work dataset do not match. The Work dataset contains autorestart information for a different database (DBID).

PARM ERROR 20

Explanation: GETMAIN below the 16MB line failed.

PARM ERROR 21

Explanation: The general control block (GCB) contains an invalid device type. The GCB may have been overwritten, damaged, or otherwise destroyed.

PARM ERROR 22

Explanation: An I/O error occurred when writing ASSO. The region is too small. The RABN that was to be written is printed.

PARM ERROR 23

Explanation: A nucleus entry already exists in the data integrity block (DIB) for one of the following reasons:

- An attempt was made to start a nucleus while another update nucleus was still active; or
- The previous nucleus session terminated abnormally but the "nucleus" DIB entry was not removed.

Action: If a DIB entry remained after an abnormal termination, rerun the job with the ADARUN IGNDIB=YES parameter.

PARM ERROR 24

Explanation: An I/O error occurred when reading ASSO. The RABN that was to be read is printed.

PARM ERROR 25

Explanation: The Adabas nucleus cannot be started because a conflicting utility DIB entry was found. Either a utility with exclusive database control or an ADASAV (SAVE FILE or SAVE database) job is running.

Action: If an ADASAV SAVE FILE or ADASAV SAVE (database) ended abnormally, the nucleus can be restarted with the ADARUN IGNDIB=YES parameter; however, the save tape cannot be used for future RESTORE operations.

PARM ERROR 26

Explanation: Interregion communication could not be established.

Action: Restart the nucleus with the ADARUN parameter FORCE=YES.

Note:

Specifying FORCE=YES with the DBID of a currently active nucleus can disrupt operations on that nucleus. In addition, users of the old database whose ID is overwritten by the FORCE=YES option lose access to the database. Therefore, FORCE=YES should only be specified if absolutely necessary. For more information, refer to the FORCE parameter description in the Adabas Operations documentation.

PARM ERROR 27

Explanation: The ADARUN statement's PLOGRQ parameter is specified as or defaults to YES, FORCE, or SEL, but a protection log and related parameters have not been provided.

PARM ERROR 28

Explanation: The protection log (PLOG) dataset(s) could not be opened, or the last dual or multiple PLOG block was not readable. This is probably due to incorrect PLOG dataset definition, specification, or job control statements.

PARM ERROR 29

Explanation: Invalid command log (CLOG) device definition.

PARM ERROR 30

Explanation: FREEMAIN error.

PARM ERROR 31

Explanation: System autorestart error (see the nucleus response code).

PARM ERROR 32

Explanation: Error during buffer flush.

PARM ERROR 33

Explanation: Error during Work initialization.

PARM ERROR 34

Explanation: The nucleus is not allowed to start with READONLY=YES when an autorestart is pending.

PARM ERROR 35

Explanation: File control block (FCB) check failed. The FCB may have been overwritten or otherwise destroyed.

PARM ERROR 36

Explanation: Timer initialization failed, or operator communication could not be established.

PARM ERROR 37

Explanation: GETMAIN in common storage (CSA) failed; interregion communication could not be established. The specific reason is given in a detailed ADAMnn message.

PARM ERROR 38

Explanation: DIB overflow.

PARM ERROR 39

Explanation: Work pool is too small for the number of threads.

Action: Increase the LWP parameter value to at least 25 kilobytes times the number of threads.

PARM ERROR 40

Explanation: Database version mismatch: the database is not version *version revision-level*.

Action: Run the ADACNV utility to bring the database to the correct version.

PARM ERROR 41

Explanation: Parallel participant table (PPT) initialization error:

- an I/O error occurred reading or writing a PPT block (RABN); or
- a PPT length error occurred when a bad PPT block was encountered.

1	an error occurred reading the PPT block (RABN) to determine the PLOG entries from the last database session.
2	an error occurred trying to obtain the constant set for the PPT.
3	an error occurred in the PPT verification routine.
4	the PPT area is full; that is, there are already 32 active PPT entries.
5	an error occurred attempting to check for any active PPT blocks.
6	an error occurred while reading the PPT block prior to updating it.
7	a bad file name was detected in the PPT for the Work dataset.
8	an error occurred trying to obtain the constant set for the PPT in order to log the Work dataset in the PPT for the first time (no previous entry was found in the PPT for the Work dataset).
9	a bad file name was detected in the PPT for the Work dataset when logging the PPT entry for the first time (no previous entry was found for the Work dataset).
10	an error occurred trying to obtain the constant set for the PPT entry in order to override a previous PPT entry.
11	a bad file name was found when attempting to log the PLOGR1 dataset in the PPT.
12	a bad file length was found when attempting to compare the new PLOGR1 dataset against the old one.
13	a bad file name was found when attempting to log the PLOGR2 dataset in the PPT.
14	a bad file length was found when attempting to compare the new PLOGR2 dataset against the old one.
15	an error occurred trying to obtain the constant set for the PPT prior to updating the PPT. Either a different PLOG dataset was detected or no PLOGs are being used.
16	an error occurred when trying to obtain the constant set for the PPT prior to writing the PPT.
15	an error occurred when attempting to read the PPT block to ensure that no other nucleus is currently using the same PLOG.
18	an error was detected in the PLOG dataset name when attempting to compare the current entry against other active entries in the cluster.

PARM ERROR 42

Explanation: Error detected during system open:

- error writing PPT RABN; or
- a Work dataset was already in use by another nucleus.

PARM ERROR 43

Explanation: Error detected during system open:

- either a PLOG was supplied that was different from the one used in the previous session, or no PLOG was supplied. The PLOG from the previous session has not yet been copied.
- PLOGRQ=FORCE was specified and either the PLOG from the previous session has not yet been copied or a UEX2 or UEX12 has not been specified.

PARM ERROR 44

Explanation: A noncluster nucleus attempted to start after a cluster failure; or, the first cluster nucleus is starting but there are already active blocks in the PPT. The nucleus is not allowed to start. Switching from single-nucleus mode to multi-nucleus cluster mode or from multi-nucleus cluster mode to single-nucleus mode is not allowed after an abnormal session termination.

PARM ERROR 45

Explanation: GETMAIN above the 16MB line failed; memory-related parameters probably too big.

PARM ERROR 46

Explanation: UQE could not be generated.

Action: Increase NU parameter.

PARM ERROR 47

Explanation: An I/O error occurred when reading or writing Work. The RABN that was to be read or written is printed.

PARM ERROR 48

Explanation: An error occurred during checkpoint generation:

- the takeover of checkpoints generated by offline utilities failed; or
- creation of the session start checkpoint failed.

PARM ERROR 49

Explanation: An I/O error occurred while reading or writing dual or multiple PLOGs. The RABN that was to be read or written is printed.

PARM ERROR 50

Explanation: Dual or multiple PLOG contains data from another database.

PARM ERROR 51

Explanation: Parameter conflict: READONLY=YES is not permitted with UTIONLY=YES.

PARM ERROR 52

Explanation: No dual or multiple PLOG available for protection logging. All PLOGs are due to be copied.

PARM ERROR 53

Explanation: At least one of the specified PLOG datasets is already in use by another nucleus in the cluster.

PARM ERROR 54

Explanation: IGNDIB=YES was specified but the DIB does not contain a conflicting nucleus or utility entry.

Action: Remove the IGNDIB parameter.

PARM ERROR 55

Explanation: Error while attempting to lock or unlock a global resource. An ADAN54 message preceding this parameter error indicates the specific global resource that could not be locked/unlocked.

PARM ERROR 56

Explanation: A DIB entry was found with an inconsistent group name. The associated nucleus may still be active. The DIB entry can be removed only by a nucleus of the same type (single, cluster) and the same CLUGROUPNAME as the DIB entry's owner.

PARM ERROR 57

Explanation: DIB entry missing. Another cluster nucleus is already active on this database, but its DIB entry is not present.

PARM ERROR 58

Explanation: The Work block size is too small to store the maximum compressed data record permitted in this database according to MAXRECL definition.

Action: Increase the Work block length.

PARM ERROR 59

Explanation: The Work block size is too small for the largest Associator block size present in this database.

PARM ERROR 60

Explanation: The PLOG block size is too small to store the maximum compressed data record permitted in this database according to MAXRECL definition.

PARM ERROR 61

Explanation: Important fields in the GCB changed while this nucleus was starting. The nucleus is not able to handle this situation.

Action: Restart the nucleus.

PARM ERROR 62

Explanation: CPU timer initialization failed.

PARM ERROR 63

Explanation: RRDF=YES is not allowed. Note that the RRDF/ENET option for maintaining shadow databases is currently unavailable for cluster nuclei.

PARM ERROR 64

Explanation: An attempt was made to start a version 7.2 or above nucleus without first formatting the protection logs (PLOGs). PLOGs must be formatted when converting to version 7.2 or above.

PARM ERROR 65

Explanation: The ADARUN statement's NSISN parameter value is greater than the allowed maximum of (Work block size - 6) / 4.

PARM ERROR 66

Explanation: The ADARUN statement's LU parameter specifies a value greater than the byte count implied by the NAB (number of attached buffers) parameter. The error was detected during open operation.

PARM ERROR 67

Explanation: Initialization failed for DTP=RM or DTP=TM.

Action: See message(s) that precede this parameter error.

PARM ERROR 68

Explanation: Invalid parameter specified with DTP=TM:

- single user mode (MODE=SINGLE) is not allowed.
- LOCAL=YES is not allowed.
- READONLY=YES is not allowed.
- LDTP (Work part 4) specified with a nonzero value is not allowed.

If it is necessary for some reason to hold data about incomplete transactions in the TM, LDTP with a nonzero value can be specified but IGNDTP=YES must also be specified. The IGNDTP parameter is for emergency use only and should only be used in consultation with your Software AG technical support representative.

**Warning:**

Whenever the data on Work part 4 is ignored, the integrity of the incomplete global transactions that are related to that data cannot be guaranteed.

PARM ERROR 69

Explanation: Value specified for the DTP parameter is invalid.

Action: Specify RM or TM or NO.

PARM ERROR 70

Explanation: Error during generation of predefined formats:

- Reading system-file FCB or FDT failed;
- Translating internal format failed; or
- Pool for system-internal formats is too small.

PARM ERROR 71

Explanation: Invalid parameter specified with NUCID:

- MODE=SINGLE is not allowed.
- READONLY=YES is not allowed.
- LFIOP must be nonzero.
- DTP parameter must be set to NO.
- If protection logs are used, dual or multiple PLOGs must be specified.
- MXMSG must be between 1 and 32767.
- NUCID must not equal UBID.

PARM ERROR 72

Explanation: Initialization of recovery logging failed.

PARM ERROR 73

Explanation: Response code 75 or 77 was received because the checkpoint file is full. Checkpoints from offline utilities may have been lost.

Action: Start the nucleus with UTIONLY=YES and reorder/increase the checkpoint file.

PARM ERROR 74

Explanation: The database will not start until the PLOG datasets have been copied or reformatted. Most likely, the database was restored and the PLOG datasets had not yet been copied. They still may be needed for the regenerate function.

Action: If the contents of the PLOG datasets are needed for a possible future regenerate function, run ADARES PLCOPY to copy them off. If the PLOGs are not needed, reformat them using the ADAFRM PLOGFRM function. In either case, start the nucleus after freeing the PLOG datasets.

PARM ERROR 75

Explanation: The nucleus cannot run with the recovery log (RLOG) feature if it runs without PLOG or if PLOGRQ=SEL is specified. The protection log (PLOG) dataset is not available; that is, PLOGRQ=SEL or PLOGRQ=NO is specified.

PARM ERROR 76

Explanation: DTP=TM or DTP=NO is specified, but LDTP is specified with a nonzero value.

Action: Start the nucleus with DTP=RM or IGNDTP=YES.

If it is necessary for some reason to hold data about incomplete transactions in a non-RM nucleus, LDTP with a nonzero value can be specified but IGNDTP=YES must also be specified. The IGNDTP parameter is for emergency use only and should only be used in consultation with your Software AG technical support representative.

**Warning:**

Whenever the data on Work part 4 is ignored, the integrity of the incomplete global transactions that are related to that data cannot be guaranteed.

PARM ERROR 77

Explanation: Machine clock (STCK) problem. The system was IPLed with the clock not set and running or set to an invalid date.

Action: Correct the date (timestamp) and restart the nucleus.

PARM ERROR 78

Explanation: Work part 2 has become too small because Work part 4 contains two-phase commit data that must be retained.

PARM ERROR 79

Explanation: The ENET user exit 10 is missing.

PARM ERROR 80

Explanation: ADACLU initialization failed and the nucleus terminated for one of the following reasons given in the SUBCODE parameter:

50	ADACOM was not found.
51	The maximum number of nuclei was exceeded.
53	The IDTH prefix was invalid.
54	The nucleus table was invalid.
55	The user table was invalid.
56	The GETMAIN was not successful.

Action: User actions that correspond to particular subcodes are as follows:

50	Start ADACOM
51	Increase the number of nuclei specified in the ADACOM parameter NU.
56	Increase the size of the region. If the problem persists, notify your Software AG technical support representative.

For the other subcodes, notify your Software AG technical support representative.

PARM ERROR 81

Explanation: A read-only (READONLY=YES) or single-user (MODE=SINGLE) nucleus cannot start if DTP=RM is specified.

PARM ERROR 82

Explanation: During session open, the system detected that a Delta Save logging (DLOG) area was installed but parameter DSF was not set to YES. DSF=YES must be specified to run with the Delta Save Facility.

Action: Restart the nucleus with parameter DSF=YES.

Alternatively, restart the nucleus with parameter DSF=NO; the nucleus then removes the DLOG area and runs in non-Delta Save mode.

**Warning:**

After switching to non-Delta Save mode, it is not longer possible to perform delta save operations.

PARM ERROR 83

Explanation: Initialization of the Delta Save Facility failed. A preceding Delta Save operator message indicates the cause of the failure.

Action: Check messages from ADADSF.

PARM ERROR 84

Explanation: The DSF logging area could not be removed. Another Adabas cluster nucleus is already running with Delta Save Facility active.

Action: Start the nucleus with DSF=YES.

PARM ERROR 85

Explanation: The previous nucleus session terminated with Work overflow. The nucleus has no free space on Work part 1 for protection information that will be produced during session autorestart.

Action: In a cluster environment (Adabas Cluster Services or Parallel Services), start a different cluster nucleus (possibly a new one) with sufficient free space on Work part 1. In a non-cluster environment (base Adabas), restore and regenerate the database.

PARM ERROR 86

Explanation: VOL-SER table could not be established.

PARM ERROR 87

Explanation: Entire Conversion Services (ECS) initialization failed.

PARM ERROR 88

Explanation: A database that uses Universal Encoding Support (UES) needs a version 7 or above Adabas router. If the database uses UES features, it cannot work with an Adabas router (ADASVC) version 6.2 or below.

Action: Install a version 7.1 or above router (ADASVC).

PARM ERROR 89

Explanation: The length of Work part 4 (LDTP parameter) can only be decreased if the area is empty. Work part 4 contains data about incomplete transactions and therefore cannot be made smaller.

PARM ERROR 90

Explanation: Invalid ADATCP configuration or UES=NO. Running with TCPIP=YES requires universal encoding support.

Action: Check and correct, if necessary, the TCPURL parameter. Install UES and specify UES=YES.

PARM ERROR 91

Explanation: Adabas cluster initialization failed. Either the program was not running authorized or the GETMAIN failed.

Action: Ensure that the program is APF-authorized. Review the space requirements for your system. If you are unable to determine the problem, contact your Software AG technical support representative.

PARM ERROR 92

Explanation: During session open, an attempt to join the Adabas cluster communication group failed. This error initializing the Adabas cluster messaging service is preceded by other messages explaining the specific error.

PARM ERROR 93

Explanation: Connect to lock structure failed.

Action: Review the lock structure definition requirements. If you are unable to determine the problem, contact your Software AG technical support representative.

PARM ERROR 94

Explanation: Connect to cache structure failed.

Action: Review the cache structure definition requirements. If you are unable to determine the problem, contact your Software AG technical support representative.

PARM ERROR 95

Explanation: Communication with other active Adabas cluster nuclei failed.

Action: Review the requirements for communication between cluster nuclei running on the same operating system image and between operating system images running members of the cluster. If you are unable to determine the problem, contact your Software AG technical support representative.

PARM ERROR 96

Explanation: Inconsistent structure name. Another Adabas cluster nucleus is already running with a different CLUCACHENAME or CLULOCKNAME parameter.

Action: Ensure that all nuclei in a sysplex cluster use the same coupling facility cache and lock structure names.

PARM ERROR 97

Explanation: Incompatible global parameters. Another Adabas cluster nucleus is already running with incompatible global parameters that cannot be modified online.

Action: Reset nonmodifiable global ADARUN parameters the same for all cluster nuclei. You may be required to stop nuclei, change the parameter settings, and restart.

PARM ERROR 98

Explanation: Locking/unlocking an Adabas cluster resource failed.

Action: Contact your Software AG technical support representative.

PARM ERROR 99

Explanation: Internal error.

Action: Contact your Software AG technical support representative.

PARM ERROR 100

Explanation: There are more than 31 nuclei in an Adabas Parallel Services cluster; this is not allowed.

Action: Reconfigure your Adabas Parallel Services cluster so that you have 31 or fewer participating Adabas nuclei.

PARM ERROR 101

Explanation: Invalid parameters specified with CLOGMRG=YES; LOGGING=YES is required; dual or multiple CLOGs are required.

Action: Specify the correct ADARUN parameters and restart the session.

PARM ERROR 102

Explanation: A cluster nucleus was started after abnormal termination with a different WORK dataset. The PPT indicates that the previously used WORK dataset still contains data, but this Cluster Service or Parallel Service nucleus was started with a different WORK dataset.

Action: Restart the cluster nucleus with the previously used WORK dataset. Change the WORK dataset only after normal termination.

PARM ERROR 103

Explanation: Incompatible usage of dual PLOG datasets.

If the first active nucleus uses PLOG datasets, all subsequent nuclei *must* use PLOG datasets. If the first active nucleus does not use PLOG datasets, all subsequent nuclei must *not* use PLOG datasets.

Action:

PARM ERROR 104

Explanation: Incompatible usage of UEX2 or UEX12.

If the first active nucleus uses either UEX2 or UEX12, all subsequent nuclei *must* use either UEX2 or UEX12. If the first active nucleus does not use UEX2 or UEX12, all subsequent nuclei must *not* use UEX2 or UEX12.

Action:

PARM ERROR 105

Explanation: Improper configuration of Global Resource Serialization (GRS). A resource lock acquired by this nucleus was ineffective against a peer nucleus.

Action: Contact your system programmer to ensure that GRS is configured in a way that GRS resource locks are mutually effective against one another on all systems on which you intend to run Cluster Services nuclei.

PARM ERROR 106

Explanation: When LOCAL=YES is specified, all cluster nuclei for a database must start on the same system.

Action: If LOCAL=YES is the intended parameter setting, start all cluster nuclei for the database on the same system. Otherwise, change the parameter setting to LOCAL=NO.